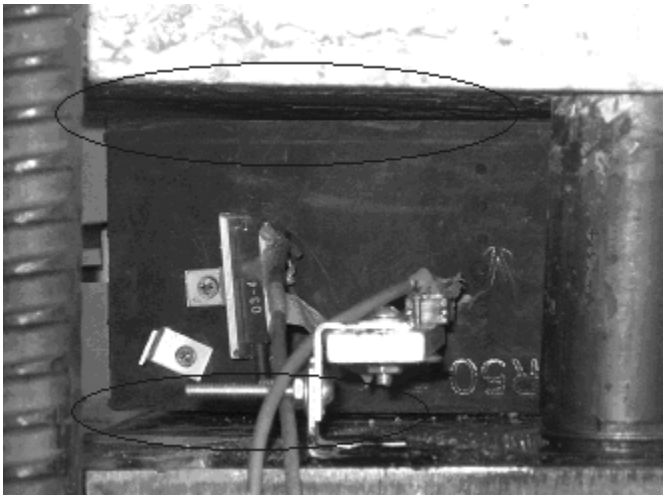

Figure 66. Visible gap between pile cap and bearing pad

As the testing sequence progressed, the deformation of the bearing pad became more notable as the axial load and bearing pad load were increased for all three piles. Figure 67 shows the deformation of the Type VI bearing pad furthest away from the actuator during pushing the circular pile under the inelastic cycles.

Figure 67. Shear deformation of the type VI bearing pad

As testing progressed into the inelastic cycles for each pile, specific observations are as follows:

Circular Pile

As loading increased it was observed that a deflection of 3.26 inches (83 mm) at the top of the pile produced yielding of the longitudinal steel. When the pile was loaded to